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(54) Data communications in a radio communication system

(57) State apparatus, and an associated method, controls a packet data service in a radio communication system in which a mobile station is operable. Control architecture is represented by operational states in which the mobile station is caused to be operated includes a control hold power save substate and a virtual traffic substate. Subsequent to a selected period of communication inactivity, the operational state of the mobile station is caused to be transitioned into a control hold power save substate in which a dedicated control channel remains allocated to the mobile station. If packet data is subsequently to be communicated by the mobile station, the channel is readily available to the mobile station to communicate the packet data thereon. When, conversely, subsequent to a period of communication inactivity, operation of the mobile station is caused to be transitioned into the virtual traffic channel substate, a communication channel is released from its allocation to the mobile station.

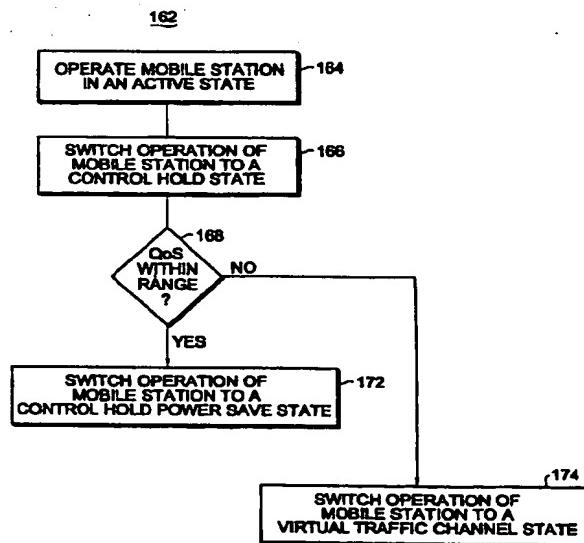


FIG. 7



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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.)
A	<p>WO 97 47112 A (PHILIPS ELECTRONICS NV ; PHILIPS NORDEN AB (SE)) 11 December 1997 (1997-12-11)</p> <p>* page 2, line 4 – page 3, line 16 *</p> <p>* page 4, line 15 – page 5, line 27 *</p> <p>* page 10, line 2 – page 12, line 15 *</p> <p>* page 14, line 27 – page 16, line 6 *</p>	1,7,17, 21,23	H04Q7/22
A	<p>EP 0 789 499 A (TELIA AB) 13 August 1997 (1997-08-13)</p> <p>* the whole document *</p>	1,7,17, 21,23	
			TECHNICAL FIELDS SEARCHED (Int.Cl.)
			H04Q
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	7 July 2000	Tsapelis, A	
CATEGORY OF CITED DOCUMENTS			
<p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p>			
<p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 99 30 2388

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The members are as contained in the European Patent Office EDP file on
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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